

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-202269

(43)Date of publication of application : 05.08.1997

(51)Int.Cl.

B62D 25/20

(21)Application number : 08-012802

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(22)Date of filing : 29.01.1996

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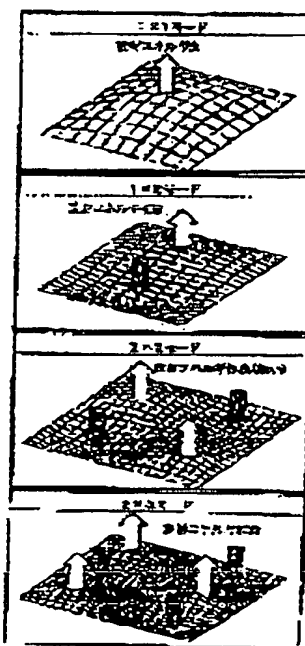
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(54) EMITTED SOUND REDUCING METHOD FOR PANEL AND PANEL

(57)Abstract:

PROBLEM TO BE SOLVED: To reduce emitted sound of a vehicle body panel so as reduce road noise of a vehicle at running at setting a vibration made exciting a panel to be a mode of low emission efficiency in the frequency to reduce emitted sound.

SOLUTION: When a vibration mode exciting a panel is set to be a $(n \times m)$ mode ((n) is the number of loop of vibration in a specified direction, (m) is the number of loop of vibration in the perpendicular direction to the fixed direction), a vibration mode of low radiation efficiency is a vibration mode of $(n \times m) = \text{an even number such as a } 2 \times 2 \text{ mode}$. In a 1×1 mode, the emission efficiency is high and the emitted sound is large, but in a 1×2 mode, a 2×2 mode, or a 2×3 mode, emitted sound is cancelled each other and the emission efficiency is lowered. Namely, when a vibration mode is set to be $(n \times m)$, a panel construction excited by a frequency to reduce emitting sound in a vibration mode of $(n \times m) = \text{an even number}$ is constituted, the harmful emitted sound is reduced.



LEGAL STATUS

[Date of request for examination] 17.11.1999

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3399732

[Date of registration] 21.02.2003

Searching PAJ

[Number of appeal against examiner's decision
of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

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